

What is claimed is:

1. A crosstalk improvement module intervening between a first polarization maintaining fiber and a second polarization maintaining fiber, comprising:

a first lens for making an output light from the first polarization maintaining fiber a parallel light;

a polarizer for converting the parallel light into a linearly polarized light;

a splitter for splitting an output light of the polarizer;

a second lens for concentrating one of the lights split by the splitter and supplying the split light to the second polarization maintaining fiber; and

a photoreceptor for receiving the other split light split by the splitter.

2. A crosstalk improvement module intervening between a first polarization maintaining fiber and a second polarization maintaining fiber, comprising:

a first lens for making an output light from the first polarization maintaining fiber a parallel light;

a polarizer for converting the parallel light into a linearly polarized light;

a splitter for splitting an output light of the polarizer;

a second lens for concentrating one of the lights split

by the splitter and supplying the split light to the second polarization maintaining fiber; and

a monitor fiber for receiving the other split light split by the splitter.

3. The crosstalk improvement module, according to Claim 1 or 2, comprising

driving means for controlling a current of a light source to the first polarization maintaining fiber according to an output from the photoreceptor or the monitor fiber.

4. A crosstalk improvement module intervening between a first polarization maintaining fiber and a second polarization maintaining fiber, comprising:

a first lens for making an output light from the first polarization maintaining fiber a parallel light;

a polarizer for converting the parallel light into a linearly polarized light;

a splitter for splitting an output light of the polarizer;

a second lens for concentrating one of the lights split by the splitter and supplying the split light to the second polarization maintaining fiber;

a photoreceptor for receiving the other light split by the splitter; and

a variable optical attenuator, provided in a front stage or a rear stage of the polarizer, for varying an input light,

wherein the variable optical attenuator is controlled according to an output from the photoreceptor.

5. The crosstalk improvement module, according to Claims 1 to 4, wherein

the first polarization maintaining fiber is connected to an input terminal of the crosstalk improvement module by a receptacle.

6. The crosstalk improvement module, according to Claims 1 to 5, wherein

an optical component conforming to the polarization maintaining fiber is connected in a final stage of a system cascading a plurality of stages.